

ABSTRACT OF THE INVENTION

This invention provides isolated nucleic acid of the p-Hyde gene, analogs, fragments,
5 mutants, and variants thereof of the p-Hyde family. The invention provides
polypeptides, fusion proteins, chimerics, fusion proteins, antisense molecules,
antibodies, and uses thereof. Also, this invention is directed to a method of inducing
susceptibility to apoptosis with p-Hyde, a method of suppressing tumor growth with p-
Hyde, and a method of treating a subject with cancer with p-Hyde alone or in
10 combination with radiation, chemotherapy, or UV mimetic drugs. The invention also
relates to the therapy of human cancers which have a mutation in the p-Hyde gene,
including gene therapy, protein replacement therapy and protein mimetics. The
invention further relates to the screening of drugs for cancer therapy. Finally, the
invention relates to the screening of the p-Hyde gene for mutations, which are useful
15 for diagnosing the predisposition to cancer.